

ABSTRACT

The invention features improved methods of and apparatus for generating and administering treatment dosages of morphogens mobilized from extracellular matrices (ECM) for tissue reconstruction applications. In particular, the invention provides tissue reconstruction devices and methods that stimulate EDMs, e.g., by applying an electric potential, to achieve controlled release of morphogens that can then be placed into tissue sites when needed. Selectively releasing different morphogens at different times by the application of specific stimuli accelerates the tissue reconstruction process.

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